

Date: Tue, 6 Sep 94 04:30:06 PDT  
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To: Info-Hams

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## Today's Topics:

Daily Summary of Solar Geophysical Activity for 05 September  
Extra Features of the Kenwood TH-78A

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We trust that readers are intelligent enough to realize that all text herein consists of personal comments and does not represent the official policies or positions of any party. Your mileage may vary. So there.

Date: Mon, 5 Sep 1994 21:27:17 MDT  
From: ihnp4.ucsd.edu!swrinde!gatech!newsxfer.itd.umich.edu!nntp.cs.ubc.ca!alberta!  
ve6mgs!usenet@network.ucsd.edu  
Subject: Daily Summary of Solar Geophysical Activity for 05 September  
To: info-hams@ucsd.edu

## DAILY SUMMARY OF SOLAR GEOPHYSICAL ACTIVITY

05 SEPTEMBER, 1994

(Based In-Part On SESC Observational Data)

SOLAR AND GEOPHYSICAL ACTIVITY INDICES FOR 05 SEPTEMBER, 1994

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!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 248, 09/05/94
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10.7 FLUX=094      90-AVG=079      SSN=092      BKI=0233 3220      BAI=008  
 BGND-XRAY=A9.3      FLU1=4.3E+05      FLU10=1.3E+04      PKI=2233 2222      PAI=008  
 BOU-DEV=004,014,030,024,021,013,011,002      DEV-AVG=014 NT      SWF=00:000  
 XRAY-MAX= C6.0 @ 0539UT      XRAY-MIN= A8.3 @ 1107UT      XRAY-AVG= B1.9  
 NEUTN-MAX= +002% @ 0040UT      NEUTN-MIN= -003% @ 1505UT      NEUTN-AVG= -0.4%  
 PCA-MAX= +0.1DB @ 1425UT      PCA-MIN= -0.3DB @ 1645UT      PCA-AVG= -0.0DB  
 BOUTF-MAX=55220NT @ 2239UT      BOUTF-MIN=55179NT @ 1739UT      BOUTF-AVG=55207NT  
 GOES7-MAX=P:+000NT@ 0000UT      GOES7-MIN=N:+000NT@ 0000UT      G7-AVG=+076,+000,+000  
 GOES6-MAX=P:+142NT@ 0005UT      GOES6-MIN=N:-015NT@ 2233UT      G6-AVG=+099,+028,-003  
 FLUXFCST=STD:092,090,088;SESC:092,090,088      BAI/PAI-FCST=015,020,020/015,018,022  
 KFCST=2135 5111 2135 5333      27DAY-AP=005,016      27DAY-KP=1210 1223 3232 4443  
 WARNINGS=\*SWF  
 ALERTS=\*\*245STRM:0215-0927UTC  
 !!END-DATA!!

NOTE: The Effective Sunspot Number for 04 SEP 94 was 28.6.  
 The Full Kp Indices for 04 SEP 94 are not available.  
 The 3-Hr Ap Indices for 04 SEP 94 are not available.  
 Greater than 2 MeV Electron Fluence for 05 SEP is: 2.5E+06

#### SYNOPSIS OF ACTIVITY

Solar activity was low. Region 7773 (S09W05) produced the largest flare, a C6/1F at 05/0538Z. This region has reduced spot area but increased magnetic complexity since yesterday. Region 7776 (S08E23) has been relatively quiet. New Region 7777 (S14W22) was numbered.

Solar activity forecast: solar activity is expected to be low. There is still a chance of an isolated M-class flare in Region 7773 or 7776.

STD: A 245 MHz radio noise storm was observed from 02:15 UTC to about 09:27 UTC. Another full-disk Yohkoh x-ray image has been appended to this report showing the location of the coronal hole and the relatively strong emissions from Regions 7773 and 7776.

The geomagnetic field was quiet to unsettled at most locations. Active to minor storm periods were observed at some high latitude stations.

Geophysical activity forecast: the geomagnetic field is expected to be active within the next 48 hours in response to a coronal hole.

Event probabilities 06 sep-08 sep

Class M	20/20/20
Class X	01/01/01
Proton	01/01/01
PCAF	Green

Geomagnetic activity probabilities 06 sep-08 sep

A. Middle Latitudes

Active	20/30/30
Minor Storm	10/20/20
Major-Severe Storm	05/10/10

B. High Latitudes

Active	20/30/30
Minor Storm	15/20/20
Major-Severe Storm	05/10/10

HF propagation conditions were normal over all regions. Minor signal degradation is expected to begin perturbing high-latitude paths (particularly transauroral circuits) over the next 2 to 3 days. Conditions may also gradually deteriorate for middle latitude paths, although in general only minor signal degradation is expected.

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REGIONS WITH SUNSPOTS. LOCATIONS VALID AT 05/2400Z SEPTEMBER

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NMBR	LOCATION	LO	AREA	Z	LL	NN	MAG	TYPE
7771	N06W30	122	0060	HSX	02	001	ALPHA	
7773	S09W05	097	0440	EKI	14	026	BETA-GAMMA	
7774	N10E04	088	0030	DRO	07	008	BETA	
7776	S08E23	069	0220	CSO	07	003	BETA	
7777	S14W22	114	0010	BXO	03	004	BETA	
7775	N16E35	057					PLAGE	

REGIONS DUE TO RETURN 06 SEPTEMBER TO 08 SEPTEMBER

NMBR	LAT	LO
7764	S06	358

LISTING OF SOLAR ENERGETIC EVENTS FOR 05 SEPTEMBER, 1994

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BEGIN	MAX	END	RGN	LOC	XRAY	OP	245MHZ	10CM	SWEEP
0703	0703	0703							150

0924	0927	0927	210
2040	2040	2041	100

POSSIBLE CORONAL MASS EJECTION EVENTS FOR 05 SEPTEMBER, 1994

BEGIN	MAX	END	LOCATION	TYPE	SIZE	DUR	II	IV
NO EVENTS OBSERVED								

INFERRED CORONAL HOLES. LOCATIONS VALID AT 05/2400Z

ISOLATED HOLES AND POLAR EXTENSIONS									
	EAST	SOUTH	WEST	NORTH	CAR	TYPE	POL	AREA	OBSN
02	N42E12	N13W27	N28W52	N50E11	105	ISO	POS	033	10830A

SUMMARY OF FLARE EVENTS FOR THE PREVIOUS UTC DAY

Date	Begin	Max	End	Xray	Op	Region	Locn	2695 MHz	8800 MHz	15.4 GHz
04 Sep:	0117	0117	0120		SF	7773	S09E17			
	0248	0251	0253	B4.5						
	0442	0447	0457	B2.9						
	0558	0605	0616	B6.3	SF	7776	S08E71			
	0917	0922	0925	B2.6						
	1358	1402	1407	B1.8	SF	7776	S07E65			
	2059	2103	2106	B1.4						

REGION FLARE STATISTICS FOR THE PREVIOUS UTC DAY

	C	M	X	S	1	2	3	4	Total	(%)
Region 7773:	0	0	0	1	0	0	0	0	001	(14.3)
Region 7776:	0	0	0	2	0	0	0	0	002	(28.6)
Uncorrelated:	0	0	0	0	0	0	0	0	004	(57.1)

Total Events: 007 optical and x-ray.

EVENTS WITH SWEEPS AND/OR OPTICAL PHENOMENA FOR THE LAST UTC DAY

Date	Begin	Max	End	Xray	Op	Region	Locn	Sweeps/Optical Observations
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